

10/814,195  
L/Coolk 5/12/05

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(FILE 'HOME' ENTERED AT 12:59:04 ON 12 MAY 2005)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT  
13:00:36 ON 12 MAY 2005

L1 0 S (PLATELET ACTIVATING FACTRO)  
L2 44226 S (PLATELET ACTIVATING FACTOR)  
L3 2547 S L2 AND REVIEW?  
L4 2675 S L2 AND PHOSPHOCHOLINE?  
L5 130 S L4 AND PHOSPHORYLCHOLINE?  
L6 62 S L3 AND PHOSPHATIDYLCHOLINE?  
L7 75 S L2 AND LYSOPC?  
L8 17 S L7 AND LYSOPAF?  
L9 8 DUPLICATE REMOVE L8 (9 DUPLICATES REMOVED)

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L7           75 S L2 AND LYSOPC?  
L8           17 S L7 AND LYSOPAF?  
L9           8 DUPLICATE REMOVE L8 (9 DUPLICATES REMOVED)

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## Lipids.

Author: American Oil Chemists' Society.  
Imprint: [Champaign, Ill.] : American Oil Chemists' Society, 1966-  
URL: <http://www.aocs.org/press/index.asp?rid=4276&expand=subs>  
Click here to see full text available via AOCS. (1997)-  
ISSN: 0024-4201  
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LYCOOK 5/12/05

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(FILE 'HOME' ENTERED AT 11:05:27 ON 12 MAY 2005)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT  
11:05:50 ON 12 MAY 2005

L1	17668 S PHOSPHOCHOLINE?
L2	1530 S L1 AND PHOSPHORYLCHOLINE?
L3	394 S L2 AND PHOSPHATIDYLCHOLINE?
L4	0 S L3 AND LYSOPHOSPHATIDYCHOLINE?
L5	19935 S LYSOPHOSPHATIDYLCHOLINE?
L6	29 S L5 AND L3
L7	24 DUPLICATE REMOVE L6 (5 DUPLICATES REMOVED)
L8	2 S L7 AND PLATELET?
L9	3 S L7 AND PAF?
L10	1 S L9 NOT L8

d 110 1 all

L10 ANSWER 1 OF 1 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

AN 92239021 EMBASE

DN 1992239021

TI Stimulation of **phosphatidylcholine** hydrolysis in type II  
alveolar epithelial cells.

AU Dubrovin L.C.; Brown L.A.S.

CS Dept. of Pediatrics, Emory University, 2040 Ridgewood Dr., Atlanta, GA  
30322, United States

SO American Journal of Physiology - Lung Cellular and Molecular Physiology,  
(1992) Vol. 263, No. 1 7-1, pp. L42-L50.

ISSN: 0002-9513 CODEN: APLPE7

CY United States

DT Journal; Article

FS 002 Physiology

030 Pharmacology

037 Drug Literature Index

LA English

SL English

ED Entered STN: 920830

Last Updated on STN: 920830

AB The effects of phorbol 12-myristate 13-acetate (TPA) or ATP on  
**phosphatidylcholine** (PC) hydrolysis were investigated in cultured  
type II pneumocytes prelabeled with [3H]choline or 1-O-[3H]octadecyl-sn-  
glycero-3- **phosphocholine** ([3H]lyso-**PAF**). In cells  
prelabeled with [3H]choline, TPA or ATP stimulated an increase in  
[3H]choline, [3H]**phosphocholine**, and [3H]glycerophosphocholine.  
The formation of these choline metabolites was associated with a  
concomitant loss of [3H]PC but not from disaturated PC or  
phosphatidylinositol. In cells prelabeled with [3H]lyso-**PAF**,  
the formation of [3H]phosphatidic acid (PA) and then [3H]1,2-DG was  
stimulated by TPA or ATP and was associated with a loss of 3H from PC but  
not from disaturated PC or phosphatidylinositol. There was a  
concentration-dependent formation of [3H]1,2-DG and [3H]PA in response to  
ATP. Downregulation of protein kinase C with TPA abolished the  
stimulation of PC hydrolysis. In addition to the generation of  
metabolites indicative of phospholipase C and/or D activity, [3H]lyso-PC,  
a product of phospholipase A2, was also generated in response to TPA.  
These findings suggest an important role for PC breakdown in signal  
transduction in type II pneumocytes.

CT Medical Descriptors:

\*hydrolysis

\*phospholipid metabolism

animal cell

article

controlled study

down regulation

drug effect

enzyme activity

enzyme repression

lung alveolus cell type 2

male

nonhuman

priority journal

rat

signal transduction

Drug Descriptors:

\*adenosine triphosphate

\*lung surfactant

\*phorbol 13 acetate 12 myristate

\***phosphatidylcholine**: EC, endogenous compound

\*phospholipase c: EC, endogenous compound

\*phospholipase d: EC, endogenous compound

1 o alkylglycero 3 phosphorylcholine  
choline

diacylglycerol

dioleoylphosphatidylcholine

glycerophosphorylcholine

lysophosphatidylcholine

phosphatidic acid

phosphatidylinositol

phospholipase a2: EC, endogenous compound

phosphorylcholine

protein kinase c: EC, endogenous compound

RN (adenosine triphosphate) 15237-44-2, 56-65-5, 987-65-5; (lung surfactant)

99732-49-7; (phorbol 13 acetate 12 myristate) 16561-29-8; (

phosphatidylcholine) 55128-59-1, 8002-43-5; (phospholipase c)

9001-86-9; (phospholipase d) 9001-87-0; (1 o alkylglycero 3

phosphorylcholine) 74430-89-0; (choline) 123-41-1, 13232-47-8,

1927-06-6, 4858-96-2, 62-49-7, 67-48-1; (dioleoylphosphatidylcholine)

10015-85-7; (glycerophosphorylcholine) 4217-84-9, 563-24-6; (

lysophosphatidylcholine) 93794-93-5; (phospholipase a2) 9001-84-7;

(phosphorylcholine) 107-73-3; (protein kinase c) 141436-78-4

CO Gibco (United States); Amersham (United States); Du pont (United States);  
Sigma